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Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				<b>Complete if Known</b>	
				<b>Application Number</b>	10/553,001
				<b>Filing Date</b>	July 24, 2006
				<b>First Named Inventor</b>	Barbara A. Gilchrest
				<b>Group Art Unit</b>	1635
				<b>Examiner Name</b>	Zara, Jane J.
Sheet	1	of	8	<b>Attorney Docket Number</b>	06225.0004.PCUS00

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number – Kind Code <sup>2</sup> (if known)			
	A1	3,937,809	02-10-1976	Jacobi, O.K.	
	A2	4,419,343	12-06-1983	Pauly, M.	
	A3	4,508,703	04-02-1985	Redziniak, et al.	
	A4	4,621,023	11-04-1986	Redziniak, et al.	
	A5	5,077,211	12-31-1991	Yarosh, D.B.	
	A6	5,256,648	10-26-1993	Gasparro, et al.	
	A7	5,455,029	10-03-1995	Hartman, et al.	
	A8	5,470,577	11-28-1995	Gilchrest, et al.	
	A9	5,489,508	02-06-1996	West, et al.	
	A10	5,532,001	07-02-1996	Gilchrest, et al.	
	A11	5,580,547	12-03-1996	Gilchrest, et al.	
	A12	5,583,016	12-10-1996	Villeponteau, et al.	
	A13	5,585,479	12-17-1996	Hoke, et al.	
	A14	5,599,672	02-04-1997	Liang, et al.	
	A15	5,643,556	07-01-1997	Gilchrest, et al.	
	A16	5,643,890	07-01-1997	Iversen, et al.	
	A17	5,645,986	07-08-1997	West, et al.	
	A18	5,686,306	11-11-1997	West, et al.	
	A19	5,837,857	11-17-1998	Villaponteau, et al.	
	A20	5,858,987	01-12-1999	Beer-Romero, et al.	
	A21	5,879,713	03-09-1999	Roth, et al.	
	A22	5,955,059	09-21-1999	Gilchrest, et al.	
	A23	6,007,989	12-28-1999	West, et al.	
	A24	6,015,710	01-18-2000	Shay, et al.	
	A25	6,020,138	02-01-2000	Akhavan-Tafti	
	A26	6,046,307	04-04-2000	Shay, et al.	
	A27	6,103,243	08-15-2000	Russell-Jones, et al.	
	A28	6,147,056	11-14-2000	Gilchrest, et al.	
	A29	6,194,206	02-27-2001	West, et al.	
	A30	6,320,039	11-20-2001	Villeponeau, et al.	

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	A31	6,440,650	08-27-2002	Matsuda, et al.	
	A32	7,033,829	04-25-2006	Gilchrest, et al.	
	A33	7,094,766	08-22-2006	Gilchrest, et al.	
	A34	7,200,531	04-03-2007	Phillips, et al.	

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	A35	2003/0144233	07-31-2003	Phillips, et al.	
	A36	2003/0032611	02-13-2003	Gilchrest, et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> – Number <sup>4</sup> – Kind Code <sup>5</sup> (if known)				
	B1	AU 717296	06-03-1996	Bio Merieux		
	B2	CA 2,224,150	12-12-1996	Trustees of Boston University		
	B3	EP 0 035 384 A2	09-09-1981	Rutter		
	B4	GB 2 336 157 A	10-13-1999	Trustees of Boston University		
	B5	WO 93/09788	05-27-1993	Baylor College of Medicine		
	B6	WO 93/12230	06-24-1993	SRI International		
	B7	WO 93/22431	11-11-1993	Baylor College of Medicine		
	B8	WO 94/08053	04-14-1994	ISIS Pharmaceuticals, Inc.		

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	B9	WO 95/01773	01-19-1995	Trustees of Boston University		
	B10	WO 95/07362	03-16-1995	Public Health Laboratory Service Board		
	B11	WO 95/09175	04-06-1995	Burns, et al.		
	B12	WO 96/23508	08-08-1996	Board of Regents of the University of Nebraska		
	B13	WO 96/27131	09-06-1996	E. Salonen		
	B14	WO 96/39152	12-12-1996	Trustees of Boston University		
	B15	WO 96/40989	12-19-1996	Bio Merieux		
	B16	WO 97/08314	08-23-1996	The Rockefeller University		
	B17	WO 97/20924	06-12-1997	Saicom S.R.L. Scaggiante		
	B18	WO 97/38013	10-16-1997	Geron Corporation		
	B19	WO 97/44450	11-27-1997	Yale University		
	B20	WO 98/06702	02-19-1998	Bayer Aktiengesellschaft	Abstract	
	B21	WO 98/36066	08-20-1998	The Rockefeller University		
	B22	WO 99/03507	01-28-1999	Board of Regents of the University of Nebraska		
	B23	WO 01/18015	03-15-2001	Geron Corporation		
	B24	WO 01/44465	06-21-2001	Bioniche Life Sciences Inc.		
	B25	WO 01/74342	10-11-2001	Trustees of Boston University		

<b>OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS</b>			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher city and/or country where published	T <sup>2</sup>

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C1	<b>Akiyama, M., et al.</b> , "Cytostatic Concentrations of Anticancer Agents do not Affect Telomerase Activity of Leukaemic Cells in Vitro," European Jour, of Cancer, 35(2):309-315 (1999)	
C2	<b>Anderson, W.F.</b> , "Human Gene Therapy," Nature, Vol. 392, pp. 25-30 (April 1998)	
C3	<b>Balasubramanian, S., et al.</b> , "Activation of telomerase and its association with G1-phase of the Cell Cycle During UVB-Induced Skin Tumorigenesis in SKH-1 Hairless Mouse," Oncogene, 18:1297-1302 (1999)	
C4	<b>Balabhadrapathruni, S., et al.</b> , "Growth Inhibitory Effects of a Telomeric Oligonucleotide on MCF-7 Breast Cancer Cells," Abstract No. 3388	
C5	<b>Beckman, K.B., et al.</b> , "The Free Radical Theory of Aging Matures," Physiol Rev, Vol. 78, No. 2, pp. 547-581 (1998).	
C6	<b>Beltz, L., et al.</b> , "The Effects of Telomerase Inhibitors on Lymphocyte Function," Anticancer Research, 19:3205-3212 (1999)	
C7	<b>Branch, A.D.</b> , "A Good antisense Molecule is Hard to Find," TIBS, Vol. 23, pp. 45-50 (1998)	
C8	<b>Chang, G.G., et al.</b> , "Inhibition of Human Cancer cell Growth by Periodate-oxidized 3-Aminopyridine Adenine Dinucleotide Diphosphate," International J. of Bio Chem., , Vol. 22, No. 11, pp. 1259-1269 (1990)	
C9	<b>Chen, L., et al.</b> , "WRN, the Protein Deficient in Werner Syndrome, Plays a Critical Strutural Role in Optimizing DNA Repair," Aging Cell, Vol. 2, pp. 191-199 (2003)	
C10	<b>Chen, Q., et al.</b> , "Oxidative DNA Damage and Senescence of Human Diploid Fibroblast Cells," Proc Natl Acad Sci USA Vol. 92, pp. 4337-4341 (1995).	
C11	<b>Cruz, P.D., et al.</b> , "Thymidine Dinucleotides Inhibit Contact Hypersensitivity and Activate the Gene for tumor Necrosis Factor $\alpha$ ," J. Investigative Dermatology, 114, pp. 253-258 (2000)	
C12	<b>de Vries, T. J., et al.</b> , "Expression of gp100, MARTA-1, Tyrosinase and S100 in Paraffin-Embedded Primary Melanomas and Locoregional, Lymph Node, and Visceral Metastases: Implications for Diagnosis and Immunotherapy. A Study conducted by the EORTC Melanoma Cooperative Group," J. Pathology, Vol. 193, pp. 13-20 (2001)	
C13	<b>Ding, S., et al.</b> , "Genetic Variation in the Premature Aging Gene WRN: A Case-Control Study on Breast Cancer Susceptibility," Cancer Epidemiol Biomarkers Prev., Vol. 16, No. 2, pp. 263-269 (2007)	
C14	<b>El-Deiry, W.S., et al.</b> , "WAF1, a Potential Mediator of p53 Tumor Suppression," Cell, 75:817-8-25 (1993)	
C15	<b>Eller, M.S., et al.</b> , "The Effect of Oligonucleotide Size and 5001' Phosphate on Stimulation of Melanogenesis," Journal of Investigative Dermatology," Abstract No. 113, Vol. 112(4):541 (1999)	

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Sheet	5	of	8	<b>Attorney Docket Number</b>	06225.0004.PCUS00

	C16	Eller, M.S., et al., "Induction of Apoptosis by Telomere' Overhang-Specific DNA," Experimental Cell Research, Vol. 276, pp. 185-193 (2002)	
	C17	Eller, M.S., et al., "Enhancement of DNA Repair in Human Skin Cells by Thymidine Dinucleotides: Evidence for a p53-Mediated Mammalian SOS Response," Proc. Natl. Acad. Sci, USA, Vol. 94, pp. 12627-12632 (1997)	
	C18	Eller, M.S., et al., "Activation of p53 Tumor Suppressor Protein by Thymidine Dinucleotides," Annual Meeting Of the Society for Investigative Dermatology, Journal of Investigative Dermatology, Vol. 106, No. 4, p. 835 (1996) XP002014518	
	C19	Fritsche, M., et al., "Induction of Nuclear Accumulation of the Tumor-Suppressor Protein p53 by DNA-damaging Agents," Oncogene 8:307-318 (1993)	
	C20	Gerwitz, et al., Blood, Vol. 92, No. 3, pp. 712-736 (1998)	
	C21	Gomez-Navarro, et al., "Gene Therapy for Cancer, European Journal of Cancer, Vol. 35, pp. 867-885 (1999)	
	C22	Goukassian, et al., "DNA Oligonucleotide Treatment Corrects the Age-Associated Decline in DNA Repair Capacity, FASEB J., Vol. 16, No. 7, pp. 754-756 (2002)	
	C23	Goukassian, D.A. et al., "Topical DNA Oligonucleotide Therapy Reduces UV-induced Mutations and Photocarcinogenesis in Hairless Mice," Proc Natl Acad Sci USA, Vol. 101, No. 11, pp. 3933-3938 (2004).	
	C24	Hadshiew, I.M., et al., "Stimulation of Malenogenesis by DNA Oligonucleotides: Effect of Size, Sequence and 5' Phosphorylation," Journal of Dermatological Science, pp. 127-138 (2001)	
	C25	Harley, C.B., et al., "Telomerase, Checkpoints and Cancer," In Cancer Surveys - Advances and Prospects in Clinical, Epidemiological and Laboratory Oncology, Cold Spring Harbor Laboratory Press, 29:263-284 (1997)	
	C26	Ho, P., et al., "Antisense Oligonucleotides as Therapeutics for Malignant Disease," Vol. 24, No. 2, pp. 187-202 (April 1997)	
	C27	Hupp, T.R., et al., "Small Peptides Activate the Latent Sequence-Specific DNA Binding Function of p53," Cell, 83::237-245 (1995)	
	C28	International Searching Authority (ISA/US), "Written Opinion," July 17, 2007, of PCT/US06/12468 filed April 4, 2005	
	C29	Jayaraman, L., et al., "Activation of p53 Sequence-Specific DNA Binding by Short Single Strands of DNA Requires the p53 C-Terminus," Cell, 81:1021-1029 (1995)	
	C30	Jen, et al., Stem Cells, Vol. 18, pp. 307-319 (2000)	
	C31	Kastan, M.B., et al., "A Mammalian Cell Cycle Checkpoint Pathway Utilizing p53 and GADD45 Is Defective in Ataxia-Telangiectasia," Cell, 71:587-597 (1992)	
	C32	Kern, S.E., et al., "Oncogenic Forms of p53 Inhibit p53-Regulated Gene Expression," Science, 256:827-830 (1992)	

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C33	<b>Li, G.Z., et al.</b> , "Evidence that Exposure of the Telomere 3' Overhang Sequence Induces Senescence," Proc Natl Acad Sci USA, Vol. 100, pp. 527-531 (2003).	
C34	<b>Lu, et al.</b> , in RNA Interference Technology (Cambridge, Appasani ed.) (2005)	
C35	<b>Lu, X., et al.</b> , "Differential Induction of Transcriptionally Active p53 Following UV or Ionizing Radiation: Defects in Chromosome Instability Syndromes?" Cell, 75:765-778 (1993)	
C36	<b>Maeda, T., et al.</b> , "Enhanced Repair of Benzo(a)pyrene-induced DNA Damage in Human Cells Treated with Thymidine Dinucleotides, Mutat Res, Vol. 433, pp. 137-145 (1999).	
C37	<b>Magnoni, C., et al.</b> , "Thymidine Dinucleotides Enhance DNA Repair in Normal Human Skin Cells," Annual Meeting of the Society for Investigative Dermatology, Journal of Investigative Dermatology 106 (4), 1996 XP002014517	
C38	<b>Mata, J., et al.</b> , "A Hexameric Phosphorothioate Oligonucleotide Telomerase Inhibitor Arrests Growth of Burkitt's Lymphoma Cells in Vitro and in Viv," Toxicol. Appl. Pharmacol. 144:189-197 (1997).	
C39	<b>Melnikova, V.O., et al.</b> , Mutation Research., Vol. 571, pp. 91-106 (2005)	
C40	<b>Mitchell, D.L. et al.</b> , "The Induction and Repair of DNA Photodamage in The Environment," In Environment UV Photobiology, A.R. Young, et al., eds. (Ny: Plenum Press), pp. 345-377 (1993)	
C41	<b>Mitsudomi, T., et al.</b> , "p53 Gene Mutations in Non-Small-Cell Lung Cancer Cell Lines and Their Correlation With The Presence of ras Mutations and Clinical Features," Oncogene 7:171-180 (1992)	
C42	<b>Nelson, W.G., et al.</b> , "DNA Strand Breaks: The DNA Template Alterations That Trigger p53-Dependent DNA Damage Response Pathways," Mol. And Cell. Biol. 14(3):1815-1823 (1994)	
C43	<b>Nicolaus, B.J.R.</b> , "Symbiotic Approach to Drug Design, Decision Making in Drug Research, pp. 173-186 (1983)	
C44	<b>Niggli, H.J., et al.</b> , "Sunlight-Induced Pyrimidine Dimers in Human Skin Fibroblasts in Comparison With Dimerization After Artificial UV-Irradiation," Photochemistry and Photobiology, 48(3):353-356 (1988)	
C45	<b>Norton, J.E., et al.</b> , "Inhibition of Human Telomerase Activity by Peptide Nucleic Acids," Nature Biotechnology, Vol. 14, pp. 615-619 (1996)	
C46	<b>Ohnuma, T., et al.</b> , "Inhibitory Effects of Telomere-Mimic Phosphorothioate Oligonucleotides on Various Human Tumor Cells in Vitro, Anticancer Research, No. 17, pp. 2455-2458 (1997)	
C47	<b>Orkin, et al.</b> , "Report and Recommendations of the Panel to Assess the NIH Investment in Research on Gene Therapy, Distributed by the National Institutes of Health, December 7, 1995	

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	C48	<b>Page, D.T., et al.</b> , "Innovations in Oral Gene Delivery: Challenges and Potentials," Vol. 6, No. 2, pp. 92-101 (Jan. 2001)	
	C49	<b>Page, T.J., et al.</b> , "The Cytotoxic Effects of Single-Stranded Telomere Mimics on OMA-BL1 Cells," No. 252, pp. 41-49 (1999)	
	C50	<b>Parris, C.N., et al.</b> , "Telomerase Activity in Melanoma and Non-Melanoma Skin Cancer," British Jour. Of Cancer, 79(1):47-53 (199)	
	C51	<b>Pedoux, R., et al.</b> , "Thymidine Dinucleotides Induce S Phase Cell Cycle Arrest in Additional to Increased Melanogenesis in Human Melanocytes," Journal of Investigative Dermatology, 111:472-477 (1998)	
	C52	<b>Plenat, F.</b> , "Animal Models of Antisense Oligonucleotides: Lessons for Use in Humans," Molecular Medicine Today, June 1996, pp. 250-257	
	C53	<b>Saeki, T., et al.</b> , "Inhibitory Effect of Telomere-Mimic Phosphorothioate Oligodeoxy Nucleotides (S-ODNS) in Human Tumor Cell Lines," Oncology, Vol. 57, pp. 27-36 (1999)	
	C54	<b>Sanchez, Y., et al.</b> , "Regulation of RAD53 by the ATM-Like Kinases MEC1 and TEL1 in Yeast Cell Cycle Checkpoint Pathways," Science, 271:357-360 (1996)	
	C55	<b>Saeki, T., et al.</b> , "Inhibitory Effect of Telomere-Mimic Phosphorothioate Oligodeoxy Nucleotides (S-ODNS) in Human Tumor Cell Lines," Onocology, Vol. 57, pp. 27-36 (1999)	
	C56	<b>Sanchez, Y., et al.</b> , "Regulation of RAD53 by the ATM-Like Kinases MEC1 and TEL1 in Yeast Cell Cycle Checkpoint Pathways," Science, 271:357-360 (1996)	
	C57	<b>Saretzki, G., et al.</b> , "Telomere Shortening Triggers a p53-Dependent Cell Cycle Arrest Via Accumulation of G-Rich Single Stranded DNA Fragments," Oncogene, Vol. 18, pp. 5148-5158 (1999)	
	C58	<b>Stull, R.A., et al.</b> , "Antigene, Ribozyme and Aptamer Nucleic Acid Drugs: Progress and Prospects," Vol. 12, No. 4, pp. 465-483 (1995)	
	C59	<b>Verma, I.M., et al.</b> , "Gene Therapy-Promises, Problems and Prospects," Nature, Vol. 389, pp. 239-242 (Sep. 1997)	
	C60	<b>Voet, D., et al.</b> , "DNA Replication, Repair and Recombination," Biochemistry, Chap. 31, pp. 967-972 (1990)	
	C61	<b>Walworth, N.C. et al.</b> , "rad-Dependent Response of the chk1-Encoded Protein Kinase at the DNA Damage Checkpoint," Science, 271:353-356 (1996)	
	C62	<b>Wei, Q., et al.</b> , "DNA Repair and Aging in Basal Cell Carcinoma: A Molecular Epidemiology Study," Proc. Natl. Acad. Sci. USA 90:1614-1618 (1993)	
	C63	<b>White, et al.</b> , "Principles of Biochemistry," 6th Edition, pps. 182-183 (1978)	
	C64	<b>Wright, W.E., et al.</b> , "Experimental Elongation of Telomeres Extends the lifespan of immortal x normal cell hybrids," The EMBO Journal, 15(7):1734-1741 (1996)	

<b>Examiner Signature</b>		<b>Date Considered</b>	
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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				<b>Application Number</b>	10/553,001
				<b>Filing Date</b>	July 24, 2006
				<b>First Named Inventor</b>	Barbara A. Gilchrest
				<b>Group Art Unit</b>	1635
				<b>Examiner Name</b>	Zara, Jane J.
Sheet	8	of	8	<b>Attorney Docket Number</b>	06225.0004.PCUS00

C65	WU, K., et al., "Telomerase Activity and Telomere Length in Lymphocytes from patients with Cutaneous T-Cell Lymphoma," Cancer, 86(6):1056-1063 (1999)	
C66	Yaar, M., et al., "Aging Versus Photoaging: Postulated Mechanisms and Effectors," The Society for Investigative Dermatology Symposium Proceedings, 3:47-51 (1998)	
C67	Yaar, M., et al., "The trk Family of Receptors Mediates Nerve Growth Factor and Neurotrophin-3 Effects in Melanocytes," J. Clin. Invest 94:1550-1562 (1994)	
C68	08/467,012 - Non-final office action dated 09-17-1996	
C69	08/467,012 - Non-final office action dated 06-10-1997	
C70	08/467,012 - Final office action dated 01-21-1998	
C71	08/467,012 - Notice of Allowance dated 03-16-1999	
C72	09/048,927 - Non-final office action dated 06-15-1999	
C73	09/048,927 - Final office action dated 01-12-2000	
C74	09/048,927 - Notice of Allowance dated 06-20-2000	
C75	09/540,843 - Restriction Requirement dated 07-03-2001	
C76	09/540,843 - Restriction Requirements dated 09-20-2001	
C77	09/540,843 - Non-final action dated 03-15-2002	
C78	09/540,843 - Non-final office action dated 11-18-2002	
C79	09/540,843 - Non-final office action dated 08-12-2003	
C80	09/540,843 - Final office action dated 02-26-2004	
C81	09/540,843 - Final office action dated 05-10-2005	
C82	09/540,843 - Non-final office action dated 08-24-2005	
C83	09/540,843 - Notice of Allowance and Examiner's amendment dated 03--02-2006	
C84	10/122,630 - Restriction Requirement dated 11-21-2003	
C85	10/122,630 - Non-final office action dated 02-01-2006	
C86	10/122,630 - Final office action dated 10-19-2006	
C87	10/122,630 - Advisory action dated 03-19-2007	
C88	10/122,633 - Restriction Requirement dated 10-06-2004	
C89	10/122,633 - Non-final office action dated 02-23-2005	
C90	10/122,633 - Notice of Allowance dated 09-21-2005	
C91	11/195,088 - Restriction Requirement dated 03-17-2006	
C92	11/195,088 - Non-final action dated 06-13-2006	
C93	11/195,088 - Final office action dated 03-12-2007	
C94	11/195,088 - Non-final office action dated 05-20-2008	
C95	11/185,088 - Final office action dated 01-29-2009	
C96	11/409,706 - Non-final office action dated 05-18-2007	
C97	11/409,706 - Final office action dated 02-07-2008	
C98	11/409,706 - Non-final office action dated 11-13-2008	

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